

Full support for HD audio formats ensures maximum enjoyment of all high definition sources. Other advantages include full HD 1080p video upscaling with 3 HDMI inputs, as well as exclusive Yamaha features such as Pure Direct, YPAO sound optimisation and four SCENE buttons.

DIGITAL
ToP·ART



1 High Sound Quality

- HD audio format support: Dolby Digital Plus, Dolby Digital TrueHD, DTS-HD High Resolution Audio and DTS-HD Master Audio
- 7-channel 735W powerful surround sound (105W x 7)
- Digital ToP-ART and High Current Amplification
- Pure Direct for higher fidelity sound reproduction
- Burr-Brown 192kHz/24-bit DACs used in all channels
- Assignable amplifiers for bi-amp connection

2 High Picture Quality

- Analogue video (480i/576i or 480p/576p) upscaling to full HD 1080p
- 1080p-compatible HDMI (3 in/1 out)
- Supports Deep Colour (up to 36 bit), x.v.Colour, a double speed Refresh Rates of 100Hz/120Hz and 1080p/24Hz transmission, and Auto Lip-Sync compensation
- Analogue video to HDMI digital video upconversion and deinterlacing with TBC

3 Surround Realism

- Fine-tuned CINEMA DSP and Adaptive DSP Level
- Improved Compressed Music Enhancer
- Adaptive DRC (Dynamic Range Control)

4 Advanced Features

- 4 SCENE buttons offering greater operating ease (with 17 preset SCENE templates)
- Improved YPAO for automatic speaker setup
- iPod compatibility via Yamaha Universal Dock
- Bluetooth (A2DP) compatibility with Yamaha Bluetooth® Wireless Audio Receiver (YBA-10)

17 CINEMA DSP Programmes

Compatible Decoder Straight

Dolby Digital
Dolby Digital EX
Dolby Digital Plus
Dolby Digital TrueHD
DTS Digital Surround
DTS 96/24
DTS-ES Matrix 6.1
DTS-ES Discrete 6.1
DTS-HD High Resolution Audio
DTS-HD Master Audio
Dolby Pro Logic
Dolby Pro Logic II Music
Dolby Pro Logic II Movie
Dolby Pro Logic II Game
Dolby Pro Logic IIx Music
Dolby Pro Logic IIx Movie
Dolby Pro Logic IIx Game
DTS Neo:6 Music
DTS Neo:6 Cinema

CINEMA DSP Programmes 17

CLASSICAL	Hall in Munich Hall in Vienna Chamber Cellar Club
LIVE/CLUB	The Roxy Theatre The Bottom Line 7ch Stereo
STEREO	Sports Action Game Roleplaying Game Music Video
ENTERTAINMENT	Standard Spectacle Sci-Fi Adventure Drama Mono Movie

DSP-AX863SE 7.1-Channel Digital Home Theatre Amplifier

High Sound Quality

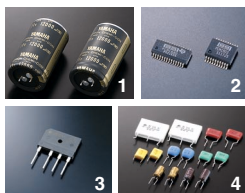
HD Audio Format Support

This receiver lets you enjoy the best possible and newest surround sound from both Blu-ray Disc players and HD-DVD players. It supports the two lossy formats: Dolby Digital Plus and DTS-HD High Resolution Audio, as well as the lossless formats: Dolby TrueHD and DTS-HD Master Audio.



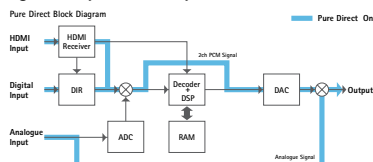
Digital ToP-ART with Audio-Grade Parts and Devices Used Throughout

Yamaha's Digital ToP-ART concept combines the latest and best technologies, parts and circuit designs to maximise sound quality. These include a 12,000µF custom-made block capacitors (1), high grade Burr-Brown DACs and ADC (2), Schottky barrier diode for high S/N (3) and other high quality audio-grade parts (4). The DSP-AX863SE also has all channel discrete amplifier configuration. High Current Amplification circuitry achieves high current power with low impedance for superior amplifier performance.



Pure Direct for Highest Sound Quality

Pure Direct is a special mode that causes the signal to bypass all but the most basic audio circuitry, and even turns off the display to prevent any chance of noise interference. It provides the purest possible high-fidelity sound for your music sources.



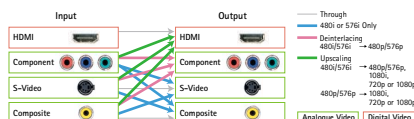
Bi-Amping Assignability

Bi-amping is an advanced feature that lets you enjoy superior sound quality. It assigns the surround back channels to provide separate low frequency and mid/high frequency allocation to the front channels, thus improving sound clarity in all frequency ranges.

High Picture Quality

Full HD 1080p Video Upscaling

The DSP-AX863SE has not only analogue video to HDMI digital video upconversion (i.e., composite video <-> S-Video <-> component video -> HDMI) capability for monitor out, but also analogue video upscaling from 480i/576i or 480p/576p to 1080i, 720p or even 1080p.



1080p-Compatible HDMI (3 In/1 Out)

The HDMI interface upgrades the transmission of standard, enhanced and high-definition signals via a single HDMI cable, providing extremely high video quality. Three HDMI inputs allow users to connect three high-definition sources such as Blu-ray Discs or HD-DVD players and switch between them. The DSP-AX863SE also provides the benefits of Deep Colour (30/36bit), the x.v.Colour standard, automatic audio and video synchronisation (Lip-Sync) capability and 1080p/24Hz support.

Surround Realism

Fine-Tuned CINEMA DSP and Adaptive DSP Level

Yamaha's much-praised CINEMA DSP programmes have been fine-tuned for even better sound with the latest generation CINEMA DSP technology*. As a result, the source and the sound field are in closer harmony, providing a delightful new CINEMA DSP experience.

When volume is low, CINEMA DSP effects may be difficult to hear. Adaptive DSP Level overcomes this problem by evaluating the difference between the volume level and a reference level, and adjusting the DSP level to ensure optimum effectiveness, that is, the best possible sound.

(*Note: CINEMA DSP programmes are not compatible with Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD High Resolution Audio.)

Advanced Features

SCENE — Greater Operating Ease

Four SCENE buttons make operating the receiver easier than ever. Pressing a SCENE button automatically turns the power on and launches a number of operations that initiate play of the source controlled by that button. Many SCENE settings are also available, such as Dock Listening, Radio Listening*, TV Sports Viewing and Game Playing (with 17 preset SCENE templates). Browsing and selecting the settings is quickly accomplished by rotating the Input knob and



watching the on-screen display. The settings can be selected for one-time use, or they can replace the original default settings. When a Yamaha DVD or CD player with SCENE compatibility is connected to the Remote Out jack, it can be operated via the receiver's SCENE functions. (* With an external FM/AM/DAB tuner)

Improved YPAO Sound Optimisation

The DSP-AX863SE has an improved YPAO system that automatically selects the crucial frequency bands for the listening room, and adjusts the level of the selected bands to create a cohesive sound field in the room. You can vary the type of the parametric equaliser adjustment among Natural, Flat and Front. In addition, the YPAO Setup Menu appears when the YPAO mic is plugged in, so you can just run it using the system menu showing in the OSD without referring to the owner's manual.

Adaptive DRC

Adaptive DRC (Dynamic Range Control) is a new volume control technology that is effective for low-volume listening, such as at night or with headphones. It applies DRC processing to eliminate the volume differences between loud commercials and ordinary programming and to take into account our ears' loss of sensitivity as volume decreases.

Other Notable Features

- HD Audio LPCM 7.1-channel reception (up to 192kHz)
- High dynamic power and Linear Damping
- Low Jitter PLL Circuitry
- Initial Volume and Maximum Volume Setting
- iPod song titles displayed in English and Western European languages ISO 8859-1 (Latin 1) on the front panel and on-screen display
- Improved Compressed Music Enhancer with Straight Enhancer programme
- SILENT CINEMA and Virtual CINEMA DSP
- Preout terminals for front, centre, surround and surround back, and dual mono subwoofer out
- 9 selectable subwoofer crossover frequencies
- Subwoofer phase select
- Front panel video Aux input terminals with optical digital and S-Video input terminals
- 8-channel or 6-channel external input
- Phono input
- Speaker A, B, A+B selection
- Learning and preset capable remote unit

Yamaha Bluetooth® Wireless Audio Receiver

The YBA-10 Bluetooth Audio Receiver docks to the amplifier and supports A2DP audio streaming, so users can enjoy music wirelessly from Bluetooth-enabled mobile phones, Windows PCs and Macs.



Yamaha Universal Dock for iPod

The optional Yamaha Universal Dock lets you connect your iPod to the receiver.



Main Specifications

Minimum RMS Output Power	
(8 ohms, 20 Hz–20 kHz, 0.06% THD)	
Front L/R Channels	105 W + 105 W
Centre Channel	105 W
Surround L/R Channels	105 W + 105 W
Surround Back Channels	105 W + 105 W
Dynamic Power (1 kHz)	
8/6/4/2 ohms	140/175/205/250 W
Damping Factor	
(8 ohms, 20 Hz–20 kHz)	120 (speaker A)
Frequency Response	
	10 Hz–100 kHz +0, -3 dB
Total Harmonic Distortion (CD, Front Sp Out)	
(50 W/8 ohms)	0.06%
Signal-to-Noise Ratio (CD)	
	100 dB (250 mV)
Monitor Out Frequency Response	
Component Video Signal	5 Hz–100 MHz -3 dB
Dimensions (W x H x D)	
	435 x 171 x 393 mm
Weight	
	11.9 kg

Inputs			Outputs		
HDMI		3	HDMI		1
Dock Terminal (for iPod / Bluetooth)		1	Analogue A/V / Audio		2 / 1
Optical Digital (Fixed and Assignable)**		4	Optical Digital (Fixed and Assignable)		1
Coaxial Digital (Fixed and Assignable)		2	S-Video		2
S-Video**		5	Component Video Monitor		1
Analogue A/V / Audio**		5 / 4	S-Video / Composite Monitor		1 / 1
Component Video (Fixed & Assignable)		3	Speaker (without subwoofer)		7ch / 9 ter.
Multi-Channel External Input		8ch	Subwoofer		2

* Video Aux not assignable. ** Including front panel Video Aux terminals.

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